What's Your Carbon Footprint?

Carbon dioxide (CO₂) is a naturally occurring greenhouse gas which helps trap the suns heat on earth, keeping our planet a comfortable temperature. Our use of fossil fuels for energy releases excess CO₂ and is causing climate change.

You can calculate your personal "carbon footprint", or the amount of CO2 emissions that you and your family create through daily life: heating your home, using electricity, and by driving. You can also find ways to reduce your carbon footprint on back of this page.



ENERGY USE AT HOME



Heating Fuel: select the type of fuel used in your home and fill in below

Emission
factors

Propane: 12.8 lb CO₂/gal, #2 Heating Oil: 22.4 lb CO₂/gal, Natural Gas: 12.6 lb CO2/therm Wood: 0 lb CO2/cord* *burning wood releases the net CO2 that trees take in CO2 when they grow*

		×	x 12	=
fuel name	gallons or therms used monthly	emission factor for fuel type used	months/year	pounds CO2/year
Electricit	y Use: check your	homes last electric	bill for the Kilowat	t hours (kWh)
	×	.9 lb CO ₂ /kWh	X 12	:
kWh used/ (see electr	71vg. 14cw	England Emission fac	ctor months/year	pounds CO2/year
TI	RANSPORTAT:	ION ENERGY		





gasoline 19.5 lb CO2/gal 12 miles/gal Miles driven/ month (mpg) Gasoline emission factor

pounds CO₂/year

month

miles/gal Miles driven/

(mpg)

× 22.4 lb CO2/gal

Diesel emission factor

X 12 pounds CO₂/year

To determine mpg use the equation below or check online: (miles traveled ÷ gallons used = mpg) , http://www.fueleconomy.gov/feg/sbs.htm

TOTAL HOUSEHOLD CARBON FOOTPRINT:











REDUCING YOUR FOOTPRINT

Carbon footprints can be reduced significantly by making small changes in the way we live our lives. These changes add up, and do make a difference! If everyone reduces their emissions by 2% every year, by 2050 our emissions will be down 80%! Here's how...

Determine 2% of your total household carbon footprint from the first page.						
Household Carbon Footprint (HCF)	X .02 = 2% of your HCF					
	·					
Pounds CO2/year	(2% this is your goal)					

• Below are examples of carbon *reducing actions*, what strategies might work for you? Place a check mark next to the actions your family could or would commit to do.

1	Carbon Reducing Action	Carbon Savings
	Cut your shower time 3 minutes every day	715 pounds of CO ₂ /year ³
	Hang your clothes to dry in warm weather	700 pounds of CO2/year2
	Cut 10 miles of driving each week	2,395 pounds CO2/year3
	Cut 10 minutes of idling time each day	1,612 pounds CO2/year3
	Replace 2-60 watt light bulbs with CFLs	165 pounds of CO ₂ /year ³
	Turn Off/Unplug Electric Appliances:	
	Television (2.5 hours less each day)	100 pounds CO2/year
	2 - 60 watt lights (2 hours less each day)	80 pounds CO2/year
	Fan (8 hours less each day)	132 pounds CO2/year
Computer/Monitor (1 hour less each day)		37.7 pounds CO2/year

◆ To calculate the carbon released from home appliances - read the watt rating on the UL nameplate and calculate the potential carbon emissions with the equation below.

(Wattage) ÷ (1000 kW/W)	X	(hours used/year)	X	(.9 lb <i>CO</i> ₂ /kWh)	=	pounds of CO2/year
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Add up the carbon savings you've chosen to reduce your carbon footprint				
TOTAL REDUCTION:	pounds CO₂ reduced/year			
Is this equal to your goal of 2% of your total household carbon footprint?				
Would you be able and willing to make these changes?				

- 1) http://www.eia.doe.gov/oiaf/1605/coefficients.html
- 2) http://www.climatecrisis.net/takeaction/whatyoucando/
- 3) Maine DEP Air Quality Bureau